

# Dental Community Preparedness for the Avian/Pandemic Flu



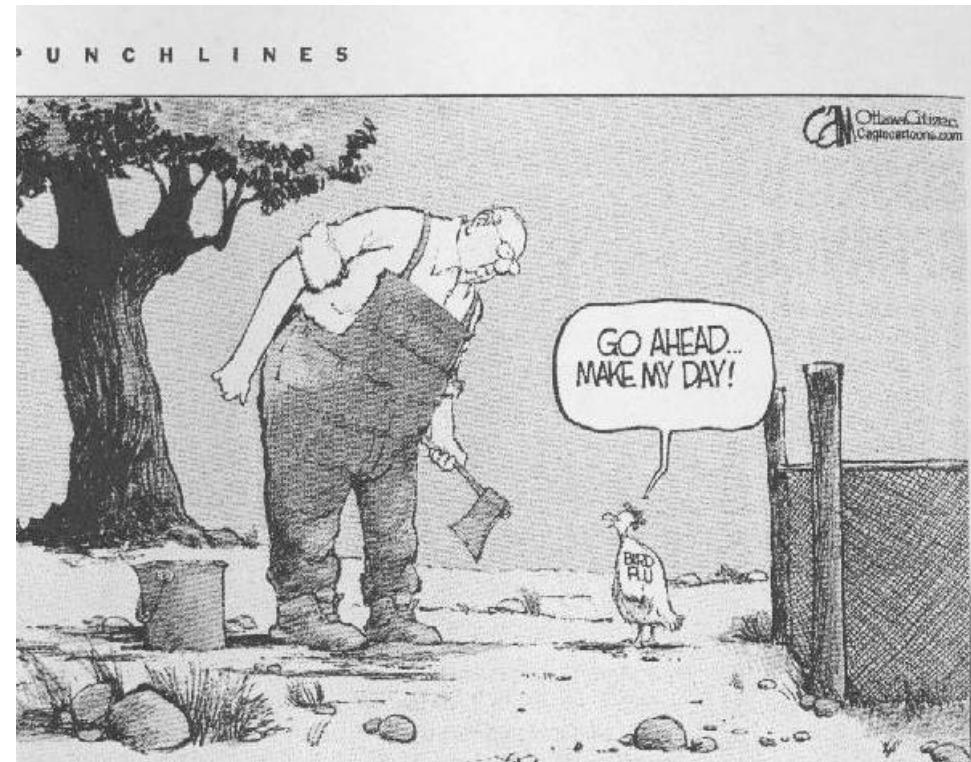
**Great Lakes Naval Hospital, Great Lakes, Illinois**

# Disclaimer

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**The content of this presentation does not constitute official U.S. Government, DoD, USN, or NHCGL policy.**

- **Official US Government policy can be obtained at [www.pandemicflu.gov](http://www.pandemicflu.gov)**



# Outline

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- **Pandemic Flu- what is it?**
- **Potential Outcome and Consequences**
- **Resources**



# Public Awareness of the Pandemic Flu

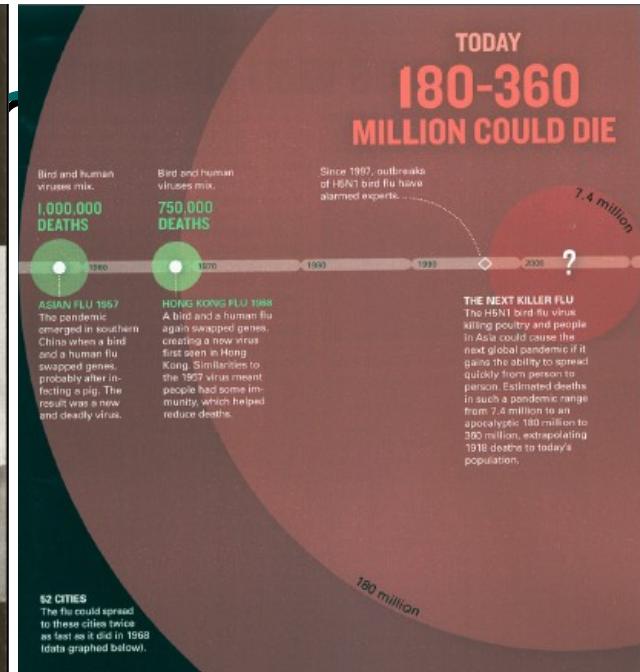
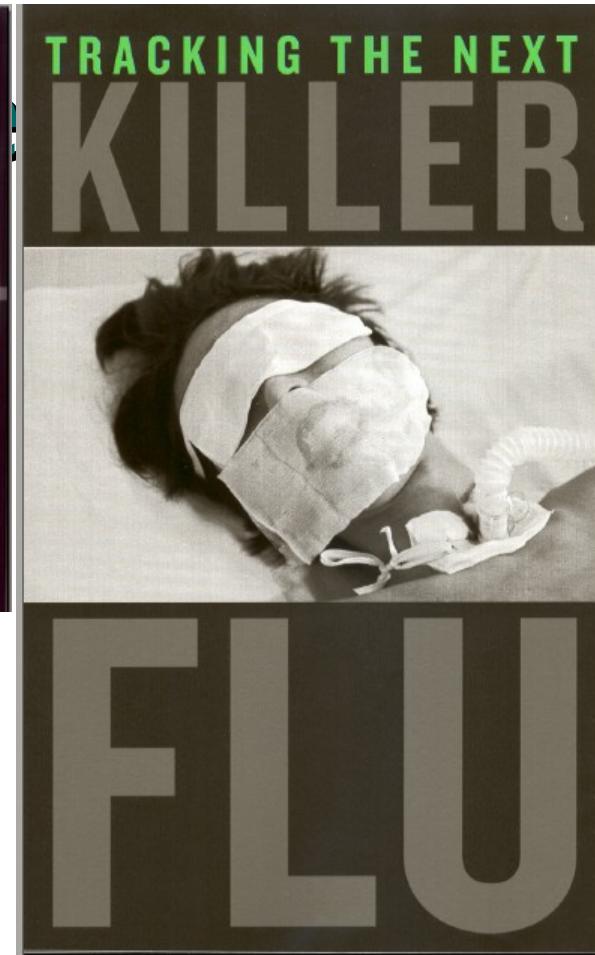
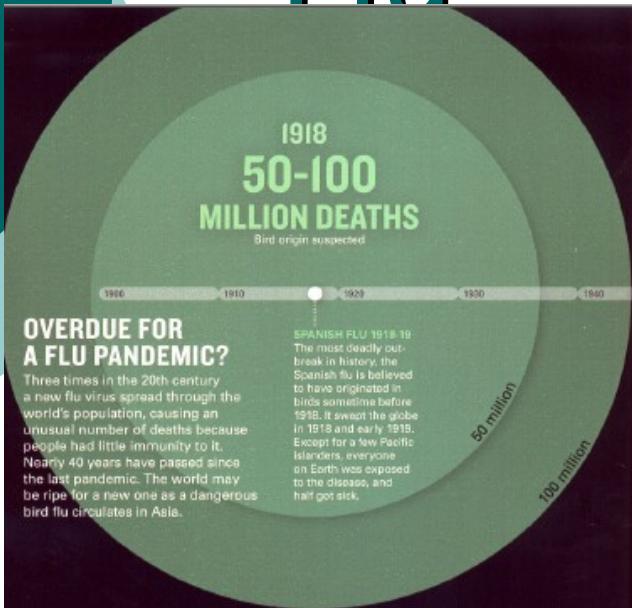
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**The public is divided into four groups:**

- **Group 1 (large %)**
  - Those who are blissfully unaware
- **Group 2 (large %)**
  - Those who are distantly aware but not especially concerned.
- **Group 3**
  - A smaller third group has well founded fears & are urging government action
- **Group 4**
  - A tiny fourth group is wanting to stockpile a personal inventory of Tamiflu.

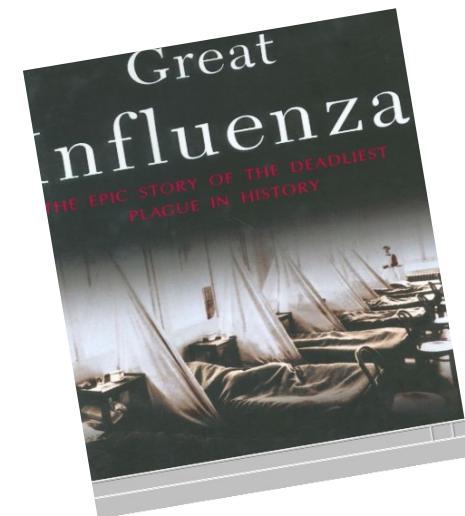
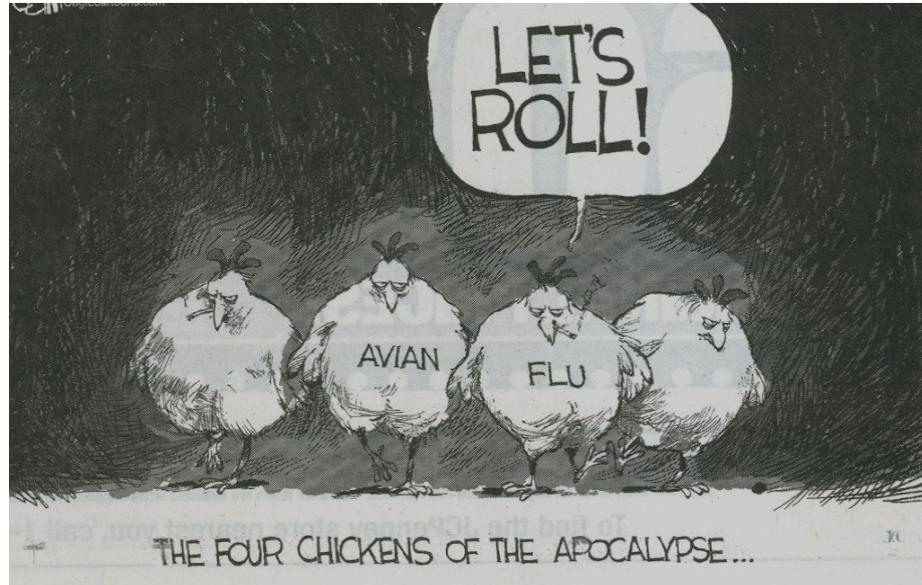
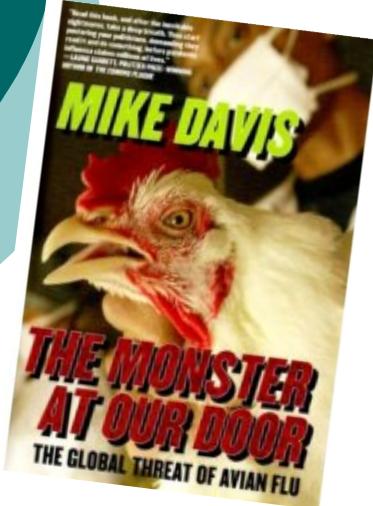


# Is the H5N1 Bird (Avian) Flu



Source: National Geographic October 2005

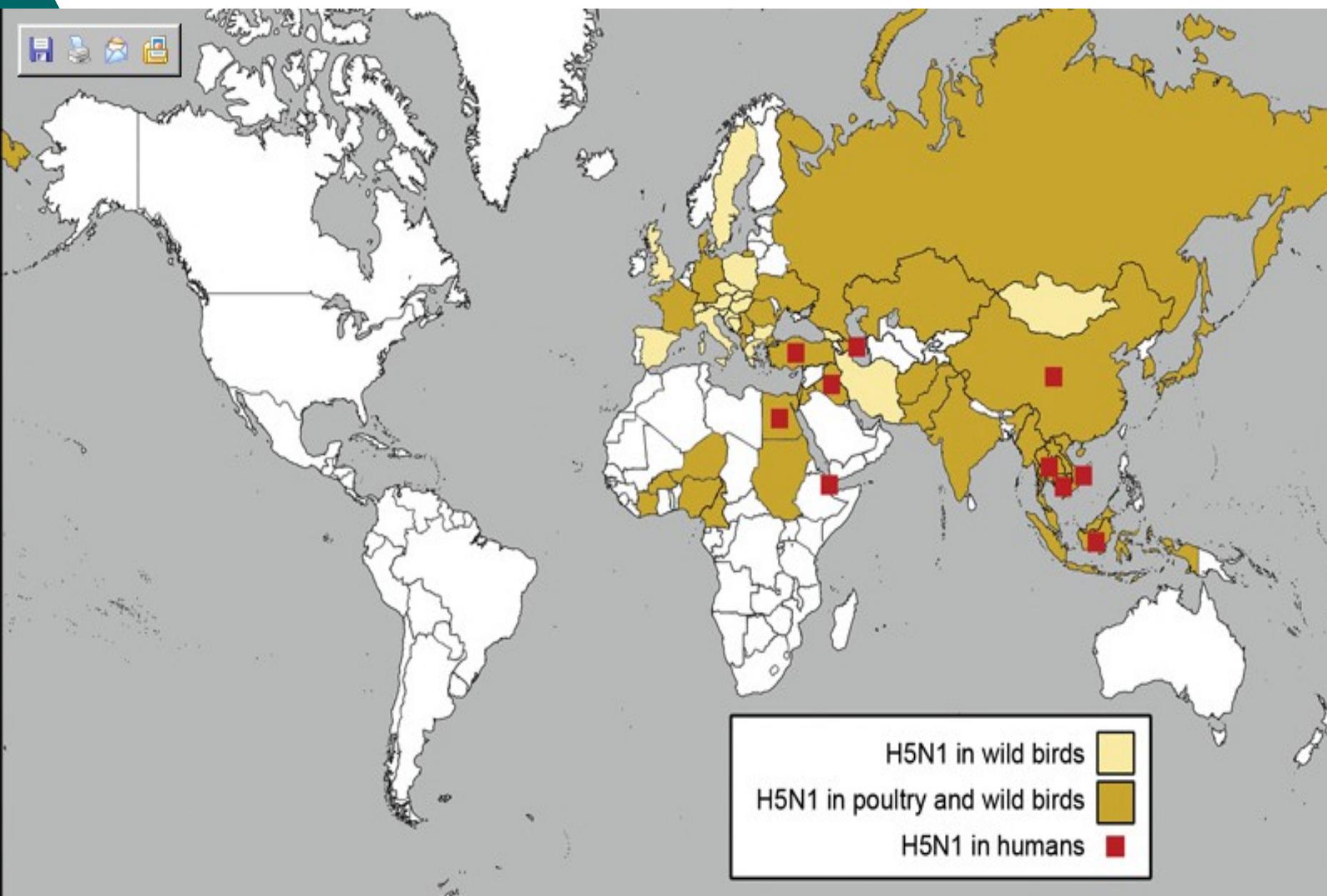
**Avian Influenza is being viewed as one more false alarm. But experts around the world have stated that this one is to be ignored at our own peril.**  
**Not if, but when...**



**We are witnessing an historic event. We have front row seats watching this virus develop and we can do so little to stop it!**

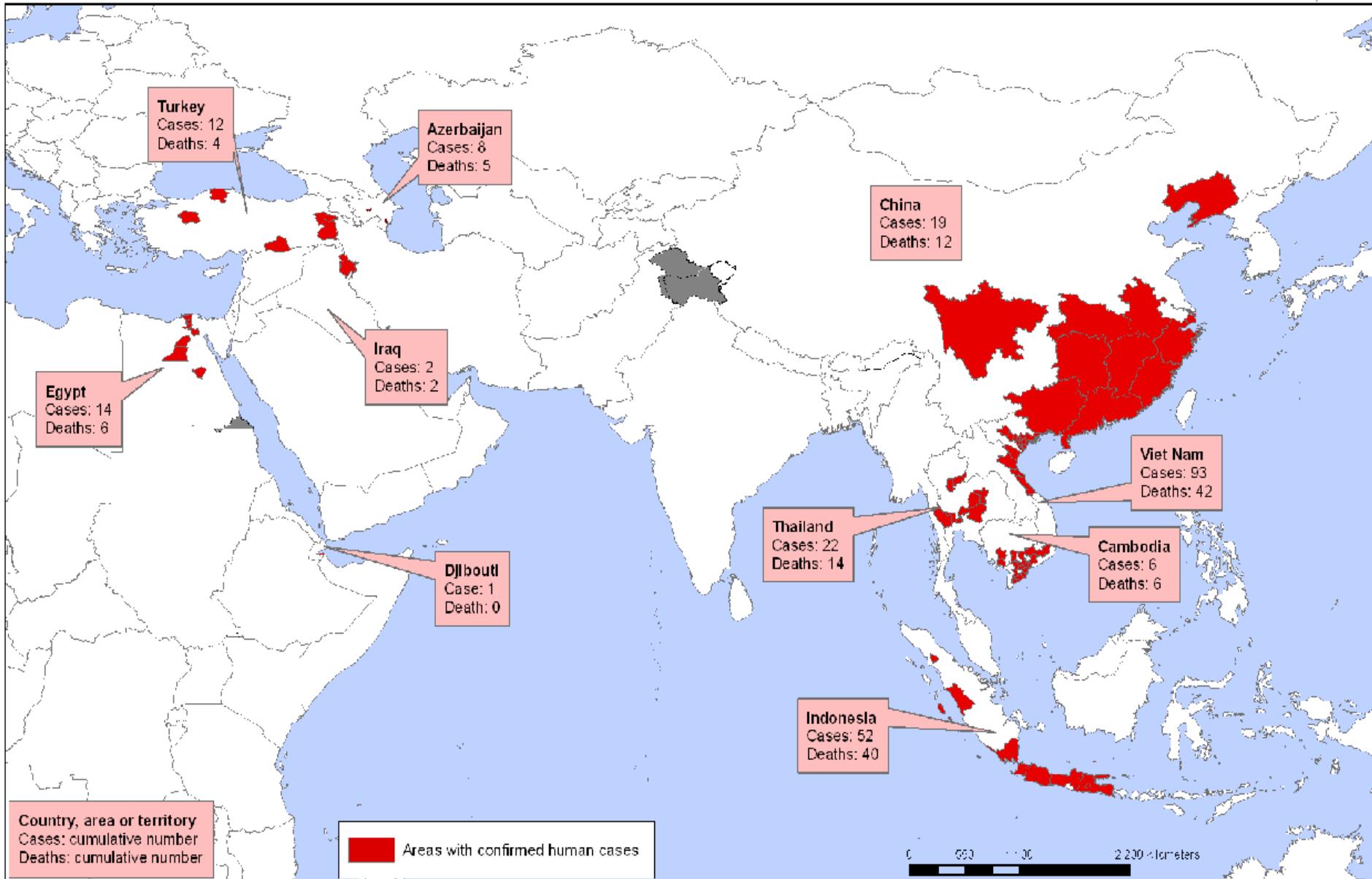
## **Nations With Confirmed Cases H5N1 Avian Influenza (07 July 06)**

Source: [www.pandemicflu.org](http://www.pandemicflu.org) 19 July 2006



## Affected areas with confirmed human cases of H5N1 avian influenza since 2003

Status as of 7 July 2006  
Latest available update



**Source:**

[gamapserver.who.int/mapLibrary/Files/Maps/Global\\_H5N1inHumanCUMULATIVE\\_20060707.png](http://gamapserver.who.int/mapLibrary/Files/Maps/Global_H5N1inHumanCUMULATIVE_20060707.png)

# Why Is Pandemic Influenza Important?

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- Pandemic Influenza may affect every American.
- The next influenza pandemic may be imminent & could be severe.
- Critical decisions will need to be made regarding the use of limited resources.



# Background



- An Avian (Bird) influenza virus is currently circulating in Asia, Africa, & Europe
  - There have been 230 cases & with 132 deaths from infection with this virus
  - Transmission has been directly from birds to humans
  - Recent activity showed 3 level tier of person-to-person infection with mutation evident
- An influenza pandemic could be precipitated by mutation of this virus and potential carry through an intermediate host (pig)
- A pandemic caused by such a flu virus could be devastating
- Prevention & control depend on limitation of virus spread, appropriate use of antiviral medications, development of new vaccines & use of a rapid distribution system

# Pandemic Influenza, Seasonal Influenza, & Avian/Bird Influenza: NOT THE SAME

## Seasonal

- “Garden-variety” influenza (the flu)
- **Vaccine available annually**
- **Seasonal flu vaccine will help keep Avian Flu from co-mingling with human seasonal flu**
- **Generally symptoms of fever, cough, body aches**

## Pandemic

- Illness across multiple countries
- Potential influenza strain yet to emerge
- Can cause illness & death in healthy populations
- Past Pandemics have been avian origin and intermediate host
- ..

## Avian/Bird

- Fast spreading among birds
- Quickly destroys domestic poultry
- High human death rate
- Few human cases presently but increasing
- Limited person to person has occurred
- No vaccine yet?

# Human Symptoms of Avian Flu

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- **Rapid onset**
- **Symptoms similar to seasonal influenza**
  - **No symptoms, fever > 39C, conjunctivitis, runny nose, stuffy nose, cough, sore throat, headache, muscle pain, weakness, nausea, abdominal pain, vomiting, diarrhea**
- **Special symptoms**
  - **Conjunctivitis, pneumonia, dyspnea, pleural effusion, hemothorax, renal failure, bleeding, shock, multi-organ failure, death**

# Possible Pharmacotherapies

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- **Theraflu IS NOT Tamiflu!**
- **Antiviral medication (e.g. Tamiflu® (oseltamivir))**
- **Tamiflu tablets can be used in treatment ( $\geq 1$ yo of age) & in prophylaxis ( $\geq 13$ yo)**
- **Stockpiling of Tamiflu®:**
  - **Only one Tamiflu factory (Roche Pharmaceuticals)**
  - **The worldwide inventory is low.**
- **Must ration Tamiflu; must not be prescribed indiscriminately.**
- **Isolated reports of Avian influenza resistance.**

# Consequences If Unprepared

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## Absenteeism in schools & businesses

- **Business and market instability**
- **Travel restrictions**
- **Media exaggerations**
- **Clamor for vaccines and medications**
- **Short staffing for hospitals & clinics**
- **Intensive care units overwhelmed with widespread shortages of mechanical ventilators**
- **Family members become distraught**
- **Looting becomes a serious problem**
- **Deterioration in health & other essential community services**



# Dentistry and Community Care

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- **Hospitals may be overrun and/or quarantined**
  - **Triage may be required in remote areas for referral to needed area**
  - **Small communities may lose all primary healthcare capability**
  - **Inability to transport patients out of area**
- **Dental clinics in smaller communities and suburbs may become secondary treatment centers**
  - **Will require planning with local hospital and health department**
  - **Coordinated “disaster plan”**

# Dental Services Impact

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- **Patients**
- **Supplies**
- **Community**
- **Other support areas**





# Potential Impact on Dental Practice

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- **Work sick- Major NO NO!**
- **Sick patients; Scared patients**
- **Sick families; Scared families**
- **Sick Staff; Scared/Worried staff**
- **Possible Travel restrictions**
- **Possible Community quarantine**
- **Limited/No lab support**
- **Limited/No supply support**
- **Limited/No repair support**

# Possible Impact on Community

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Can “business as usual” be continued?

## Infrastructure

- Public safety: ***Cross train***
  - Law Enforcement
  - Fire
  - EMS
- Public Utilities: ***Cross train***
  - Sanitation
  - Water
  - Power, Gas, etc.
  - Maintenance
- Businesses
  - Can some onsite functions be moved offsite
  - Telecommute
  - ***Cross train***

# Points of Distribution (POD)

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- **Designated location to distribute immunizations or medications**
  - Personnel need to be trained
  - Needs to be distributed throughout the community
  - Ideal for trained Healthcare Office Staff
  - Support through the Medical Reserve Corps
- **May not be able to count on the Hospital or normal healthcare facilities**

# Protective Measures

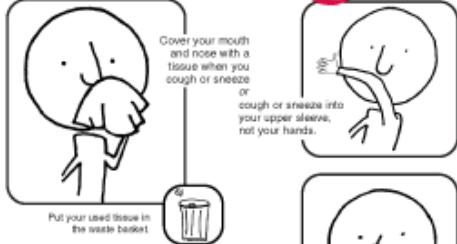
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- **Be informed & stay informed.**
- **Become more diligent about good hygiene.**
  - **Practice hand hygiene**
    - **Wash before and after patient care**
    - **Wash after touching common objects (door knobs, etc.)**
    - **Use hand sanitizers if available**
    - **Mount hand sanitizers in every common area for staff and patients (lunch rooms, waiting rooms, etc.)**
  - **Practice health hygiene**
    - **Carry tissues/ handkerchief**
    - **Cough into your tissue or sleeve- not your hand**
    - **Avoid shaking hands**

[www.cdc.gov/flu/protect/covercough.htm](http://www.cdc.gov/flu/protect/covercough.htm)

Stop the spread of germs that make you and others sick!

# Cover your Cough



## Clean your Hands

after coughing or sneezing:



## Safer Healthier Home

### An Ounce of Prevention Keeps the Germs Away

Follow these easy and low-cost steps to stop many infectious diseases.

- Clean Your Hands Often**  
Keeping your hands clean is one of the best ways to keep from getting sick and spreading illnesses.
- Routinely Clean and Disinfect Surfaces**  
Cleaning with soap, water, and scrubbing removes dirt and most germs. However, using a disinfectant cleaner kills germs, giving even better protection.
- Use Antibiotics Appropriately**  
Antibiotics don't work against viruses such as colds and the flu. Unnecessary antibiotics can be harmful. Antibiotics should be taken exactly as prescribed by your doctor.
- Be Careful with Pets**  
People can get sick from being around pets. Babies and children under age 5 should be watched carefully around pets and animals. Always wash hands after touching animals or animal waste.
- Handle and Prepare Food Safely**
  - Clean hands and surfaces often
  - Separate – don't cross-contaminate one food with another
  - Cook foods to proper temperatures
  - Chill – refrigerate foods promptly
- Get Immunized**  
Getting immunizations is easy, low-cost, and saves lives. Make sure you and your kids get the shots suggested by your doctor.

For information about ordering brochures and posters, please visit [www.cdc.gov/ounceofprevention](http://www.cdc.gov/ounceofprevention)



Centers for Disease Control and Prevention  
Centers for Injury Prevention and Control,  
National Center for Infectious Diseases,  
in partnership with Reckitt Benckiser Inc.  
In names of LYSOL® Brand Products

SAFER • HEALTHIER • PEOPLE™

Stop the spread of germs that make you and others sick!

# Cover your Cough



## Clean your Hands

after coughing or sneezing.



[www.cdc.gov/ncidod/op/\\_resources/OOP%20poster%2012.13.05.pdf](http://www.cdc.gov/ncidod/op/_resources/OOP%20poster%2012.13.05.pdf)

# Protective Measures

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- **Advise health improvement**
  - **The healthier you are, the more resistant your body is to disease...**
  - **Now is the time to focus on health**
    - **Quit tobacco use**
    - **Improve eating habits**
    - **Exercise regularly**
    - **Get regular medical checkups**
    - **Recommended immunizations**

# Pandemic/Avian Flu Resources

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- **Illinois Department of Public Health**
  - [www.idph.state.il.us/avianflu.htm](http://www.idph.state.il.us/avianflu.htm)
- **Federal website**
  - [www.pandemicflu.gov](http://www.pandemicflu.gov)
  - [www.avianflu.gov](http://www.avianflu.gov)
  - [www.ready.gov](http://www.ready.gov)
- **Centers for Disease Control**
  - [www.cdc.gov](http://www.cdc.gov)
  - [www.cdc.gov/flu/avian/](http://www.cdc.gov/flu/avian/)
- **Register with the CDC**
  - [www.bt.cdc.gov/clinregistry/](http://www.bt.cdc.gov/clinregistry/)
- **World Health Organization (WHO)**
  - [www.who.int/csr/disease/avian\\_influenza/en/index.html](http://www.who.int/csr/disease/avian_influenza/en/index.html)



NEVER CATCH SNOWFLAKES  
WITH YOUR TONGUE  
UNTIL ALL THE BIRDS  
HAVE GONE SOUTH  
FOR THE WINTER.

# Medical Reserve Corps



Resource Site

Enter Search

Search

Sponsored by: The Office of the Surgeon General

## News & Events

## Find MRC Units

## Start an MRC

## Resources

## Questions & Answers

## Surgeon General Priorities

## About the MRC

[Register](#) to use MRC Member Resources

### MRC Message Boards



[Member Login:](#)

[Password:](#)

To serve citizens and communities throughout the United States by establishing local teams of volunteers to strengthen the public health infrastructure and improve emergency preparedness.

★ **News and Events** - Read [press releases](#) and view the MRC [Calendar of Events](#).

★ **Find an MRC Unit Near You** - Identify an MRC Unit near you and volunteer. There are [347 units](#) located across the USA.

★ **Start an MRC** - Learn how to [create your](#) own MRC unit.

★ **Resources** - Access [promising practices](#), reports, guidelines, and vital information.

★ **Questions & Answers** - Read frequently asked [questions and answers](#) about the MRC program.

★ **Surgeon General Priorities** - Learn about [Surgeon General Richard H. Carmona's priorities](#) for the health of individuals, and the nation.

★ **About the MRC** - Learn about the MRC program and find [contact information](#) for the MRC program leaders.

## Did you know...?

The Oak Park, IL MRC assisted public health nurses in distributing educational materials following a pertussis outbreak and helped in the same way during a West Nile virus campaign. MRC volunteers helped with crowd control after the release of a limited supply of flu vaccine. More than 2,200 residents in the area were vaccinated during the clinics.

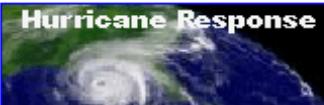
## Quick Links

- ▶ [Join the Listserv](#)
- ▶ [Visit the Message Board](#)
- ▶ [Regional Newsletters](#)
- ▶ [MRC Spotlights](#)
- ▶ [Hurricane Response Survey](#)

Message from the Surgeon General



VADM Richard H. Carmona



<http://www.medicalreservecorps.gov/page.cfm?pageID=12>

# Questions????

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Please remember to share this information with your families, friends, and co-workers